IN THE CLAIMS:

Please **AMEND** claims 1-15 as shown below.

Please **ADD** new claim 16 as shown below.

1. (Currently Amended) A method, ~~for implementing multicasting in IP networks,~~ ~~in which multicast packets are transmitted by means of a multicast tree from one~~ ~~transmitter through several multicast controllers to several recipients,~~ the method comprising:

transmitting multicast data packets in at least one first multicast tree from one transmitter through a plurality of multicast controllers to a plurality of recipients;

generating at least one second multicast tree configured to ~~intended for~~ control messages in an internet protocol ~~the~~ network from a network multicast controller to at least one multicast controller[[s]] at cell level; and [[,]]

transmitting the control messages from the network multicast controller along the at least one second multicast tree to the at least one multicast controller[[s]] at cell level, the control messages comprising ~~containing~~ information on the multicast transmission of the internet protocol network and a command configured to connect to the at least one first multicast tree of the internet protocol network configured ~~intended~~ for multicasts.

2. (Currently Amended) A method as claimed in claim 1, further comprising:

connecting, when connecting to the internet protocol network, the at least one cell-level multicast controller connects-to the at least one multicast tree configured intended for the network control messages.

3. (Currently Amended) A method as claimed in claim 1, further comprising:

connecting, wherein-after receiving a control message from the network multicast controller through the at least one multicast tree configured intended-for the control messages, the at least one cell-level multicast controller connects-to the at least one network-multicast tree configured intended-for multicasts and defined in the control message.

4. (Currently Amended) A method as claimed in claim 1, further comprising:

transmitting, wherein-after connecting to the at least one network-multicast tree configured intended-for multicasts, by the at least one cell-level multicast controller transmits the-packets it-received through the at least one multicast tree to at least one receiver the receivers-in the-a cell.

5. (Currently Amended) A method as claimed in claim 1, wherein the transmitting comprises transmitting the control messages further comprising information on the-an identifier of one or more multicast groups is included in the control messages.

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6. (Currently Amended) A method as claimed in claim 1, wherein <u>the transmitting</u> <u>comprises transmitting the control messages further comprising</u> information on ~~the~~ <u>a</u> time of validity of the control message<u>s.</u> ~~is included in the control messages.~~

7. (Currently Amended) A method as claimed in claim 1, wherein <u>the transmitting</u> <u>comprises transmitting the control messages further comprising</u> information on ~~the~~ <u>a</u> sender authentication ~~is included in the control messages~~.

8. (Currently Amended) A method as claimed in claim 1, wherein <u>the transmitting</u> <u>comprises transmitting the control messages further comprising</u> a receiver filter ~~is~~ ~~included in the control messages~~.

9. (Currently Amended) A method as claimed in claim 1, <u>further comprising:</u>

<u>registering,</u> ~~wherein~~ after receiving a control message from the network multicast controller, <u>by</u> the <u>at least one</u> cell-level multicast controller ~~registers as~~ a recipient of <u>a</u> ~~the~~ multicast defined in <u>a</u> ~~the~~ control message.

10. (Currently Amended) A method as claimed in claim 1, <u>further comprising:</u>

<u>notifying,</u> ~~wherein~~ after receiving a control message from the network multicast controller, <u>by</u> the <u>at least one</u> cell-level multicast controller ~~notifies the~~ recipients of its cell that a multicast is available.

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11. (Currently Amended) A method as claimed in claim 1, <u>further comprising:</u>

<u>notifying,</u> ~~wherein~~ after receiving a control message from the network multicast controller through the <u>at least one</u> multicast tree <u>configured</u> ~~intended~~ for control messages, <u>by</u> the <u>at least one</u> cell-level multicast controller ~~notifies the~~ recipients of its cell that a multicast must be received.

12. (Currently Amended) A method as claimed in claim 1, <u>further comprising:</u>

<u>refraining,</u> ~~wherein~~ after receiving a control message from the network multicast controller through the <u>at least one</u> multicast tree <u>configured</u> ~~intended~~ for control messages, <u>from processing the control message by</u> the <u>at least one</u> cell-level multicast controller ~~does not process the message~~.

13. (Currently Amended) An arrangement for implementing multicasting in internet protocol <u>IP</u> networks<u>, the arrangement comprising:</u> ~~that comprises~~

a <u>plurality</u> ~~number~~ of routers <u>configured to transmit</u> ~~transmitting messages~~ of ~~the~~ different components in the <u>internet protocol networks</u> ~~network~~ to each other<u>;</u>[[,]]

at least one <u>first</u> multicast <u>tree</u> ~~transmitter~~ <u>configured</u> ~~that is arranged~~ to transmit multicast packets through <u>a plurality of multicast controllers to a plurality of recipients;</u> ~~a multicast tree to several receivers,~~

a plurality number of cell-level multicast controllers configured that is arranged to transmit packets to the plurality of receivers; and [[,]]

a network multicast controller that is arranged to control the cell-level multicast controllers,

wherein an the internet protocol network comprises at least one second multicast tree configured to route intended for control messages from the network multicast controller to the plurality of cell-level multicast controllers, the network multicast controller configured is arranged to transmit control messages along the at least one second multicast tree to the plurality of cell-level multicast controllers, and the control messages comprise contain information on the multicast transmission of the internet protocol network and a command configured to connect to the at least one first multicast tree of the internet protocol network configured intended for multicast transmissions.

14. (Currently Amended) An arrangement as claimed in claim 13, wherein the cell-level multicast controller is configured arranged to connect to the multicast tree configured intended for network control messages when connecting to the an internet protocol IP network.

15. (Currently Amended) An arrangement as claimed in claim 13, wherein the cell-level multicast controller is configured arranged to connect to the multicast tree of an internet protocol IP network configured the network intended for multicasts after

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receiving ~~having received~~ <u>a</u> control message from the network multicast controller

through the multicast tree <u>configured</u> ~~intended~~ for control messages.

16. (New) An arrangement, comprising:

first transmission means for transmitting different components in internet protocol

networks to each other;

second transmission means for transmitting multicast packets through a plurality

of multicast controllers to a plurality of recipients;

third transmission means for transmitting packets to the plurality of receivers; and

control means for controlling the cell-level multicast controllers,

wherein an internet protocol network comprises fourth transmission means for

routing control messages transmitted from the control means to the third transmission

means, the control means for transmitting the control messages along the fourth

transmission means to the second transmission means, and the control messages comprise

information on the multicast transmission of the internet protocol network and a

command configured to connect to the second transmission means of the internet protocol

network configured for multicast transmissions.

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